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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: M. Abe, et al.

Serial No.: 09/734,512

Filed: December 11, 2000

For: AUDIO SIGNAL PROCESSING
METHOD, AUDIO SIGNAL
PROCESSING APPARATUS, HI-FI
VIDEO APPARATUS, DIGITAL VIDEO
APPARATUS AND 8MM VIDEO
APPARATUS

Case No.: 9792909-4921

Group Art Unit: not yet assigned

Certificate of Mailing (37 CFR 1.8(a))

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the:

Assistant Commissioner for Patents
Washington, D.C. 20231, on:

Date of Deposit: October 8, 2001

Joellen Hogan 10/8/01
Joellen Hogan Date

TRANSMITTAL LETTER

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Enclosed herewith is a Revocation and Power of Attorney in the above-identified patent application.

Also enclosed are: Copy of Recorded Assignment
Return Receipt Postcard

Applicant's former counsel, Limbach & Limbach, has gone out of business, and forwarding of mail has been sporadic, at best. If any correspondence has been issued since January 1, 2001, please forward a copy to us as we cannot guarantee that it has been received by applicant, or applicant's current or former counsel.

The Commissioner is hereby authorized to charge any additional fees required, as well as any patent application processing fees associated with this communication for which full payment has not been tendered, to Deposit Account No. 19-3140. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

SONNENSCHN NATH & ROSENTHAL

SONNENSCHN NATH & ROSENTHAL
P.O. Box 061080
Wacker Drive Station
Sears Tower
Chicago, Illinois 60606-1080
Telephone: (312) 876-8000

By: *David R. Metzger*
David R. Metzger
Registration No. 32,919



Our Docket No: 09792909-4921

Sony Docket No: S00P1528US00

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APPLICANTS: M. Abe, et al.

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TITLE AUDIO SIGNAL PROCESSING METHOD, AUDIO SIGNAL
PROCESSING APPARATUS, HI-FI VIDEO APPARATUS,
DIGITAL VIDEO APPARATUS AND 8 MM VIDEO APPARATUS

AU: not yet assigned

Assist. Commissioner of Patents
Washington, D.C. 20231

REVOCATION AND POWER OF ATTORNEY

Dear Sir:

SONY CORPORATION, a Japanese Corporation, having a place of business at 7-35,
Kitashinagawa 6-chome, Shinagawa-ku, Tokyo 141, Japan and owner of the above-
referenced patent application, hereby revokes all former appointments of powers of attorney
and hereby appoints the following attorneys to transact all business in the United States
Patent and Trademark Office connected herewith:

Terrence M. Brennan, Reg. No. 42,360
Thomas J. Burton, Reg. No. 47,464
Matthew M. Catlett, Reg. No. 44,067
Jeffrey F. Craft, Reg. No. 30,044
D. Andrew Floam, Reg. No. 34,597
Brian J. Gill, Reg. No. 46,727
Gregory Gulliver, Reg. No. 44,138
John F. Griffith, Reg. No. 44,137
Kevin W. Guynn, Reg. No. 29,927
Jennifer Hammond, Reg. No. 41,814
Marc E. Hankin, Reg. No. 38,908
Lana Knedlik, Reg. No. 42,748
Michael L. Kiklis, Reg. No. 38,939
Eric N. Kohli, Reg. No. 43,726

Mark H. Krietzman, Reg. No. 41,128
Brian R. McGinley, Reg. No. 47,782
David R. Metzger, Reg. No. 32, 919
Michael A. Molano, Reg. No. 39,777
John F. Nethery, Reg. No. 42,928
Christopher P. Raush, Reg. No. 45,034
Francisco Rubio-Campos, Reg No. 45,358
Marina N. Saito, Reg. No. 42,121
Alison P. Schwartz, Reg. No. 43,863
Jordan A. Sigale, Reg. No. 39,028
Janelle D. Strode, Reg. No. 34,738
Vincent Tassinari, Reg. No. 42,179
Shashank S. Upadhye, Reg. No. P48,209

of the firm:

SONNENSCHN NATH & ROSENTHAL
P.O. Box 061080
Wacker Drive Station - Sears Tower
Chicago, Illinois 60606-1080
(312) 876-8000 telephone
(312) 876-7934 facsimile

to which all correspondence is to be directed.

The undersigned hereby states that I am empowered to sign this Revocation and Power of Attorney on behalf of SONY CORPORATION and certify that an assignment of the subject application to SONY CORPORATION was recorded with the United States Patent and Trademark Office on June 28, 2001 at Reel/Frame 011942/0457; that I have reviewed all the documents in the chain of title in the subject application and to the best of my knowledge and belief, title is in the name of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application.

Signature:  Date: October 2, 2001

Name: Keisuke Tanaka
(Print)

Title: Manager, Intellectual Property Div.

Docket Number: _____

ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in AUDIO SIGNAL PROCESSING METHOD, AUDIO SIGNAL PROCESSING APPARATUS, HI-FI VIDEO APPARATUS, DIGITAL VIDEO APPARATUS AND 8 MM VIDEO APPARATUS for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, Sony Corporation, a Japanese corporation with offices at 7-35 Kitashinagawa 6-Chome, Shinagawa-Ku, Tokyo, Japan (hereinafter referenced as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow: Serial Number: 09/734,512, Filing Date: 12/11/2000.

This assignment executed on the dates indicated below.

MOTOTSUGU ABE

Name of first or sole inventor

Execution date of U.S. Patent Application

TOKYO, JAPAN

Residence of first or sole inventor

Signature of first or sole inventor

Date of this assignment

Mototsugu Abe

April 20, 2001

AKIRA INOUE

Name of second inventor

Execution date of U.S. Patent Application

TOKYO, JAPAN

Residence of second inventor

Signature of second inventor

Date of this assignment

*Akira Inoue**April 23, 2001*

JUN MATSUMOTO

Name of third inventor

Execution date of U.S. Patent Application

KANAGAWA, JAPAN

Residence of third inventor

Signature of third inventor

Date of this assignment

*Jun Matsumoto**April 23, 2001*

KOJI SUGINUMA

Name of fourth inventor

Execution date of U.S. Patent Application

TOKYO, JAPAN

Residence of fourth inventor

Signature of fourth inventor

Date of this assignment

*Koji Sugino**May 2, 2001*

MASAYUKI NISHIGUCHI

Name of fifth inventor

Execution date of U.S. Patent Application

KANAGAWA, JAPAN

Residence of fifth inventor

Signature of fifth inventor

Date of this assignment

*Masayuki Nishiguchi**May 8, 2001*



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

SEPTEMBER 10, 2001

PTAS

SONNENSCHN NATH & ROSENTHAL
DAVID R. METZGER
P.O. BOX 061080 - SEARS TOWER
WACKER DRIVE STATION
CHICAGO, IL 60606-1080



101769994A

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RECORDATION DATE: 06/28/2001

REEL/FRAME: 011942/0457
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
ABE, MOTOTSUGU

DOC DATE: 04/20/2001

ASSIGNOR:
INOUE, AKIRA

DOC DATE: 04/23/2001

ASSIGNOR:
MATSUMOTO, JUN

DOC DATE: 04/23/2001

ASSIGNOR:
SUGINUMA, KOJI

DOC DATE: 05/02/2001

ASSIGNOR:
NISHIGUCHI, MASAYUKI

DOC DATE: 05/08/2001

ASSIGNEE:
SONY CORPORATION
7-35 KITASHINAGAWA 6-CHOME
SHINAGAWA-KU
TOKYO, JAPAN

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BY: JCD

011942/0457 .PAGE 2

SERIAL NUMBER: 09734512
PATENT NUMBER:

FILING DATE: 12/11/2000
ISSUE DATE:

DOROTHY RILEY, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

FORM PTO-1619A
Expires 06/30/99
OMB 0651-0027

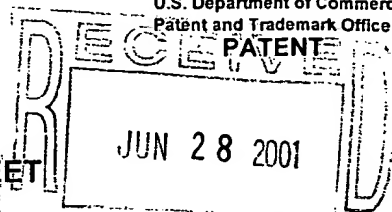
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Correspondent Name and Address

Area Code and Telephone Number (312) 876-8000

Name David R. Metzger

Address (line 1) Sonnenschein Nath & Rosenthal

Address (line 2) P.O. Box 061080

Address (line 3) Wacker Drive Station - Sears Tower

Address (line 4) Chicago, IL 60606-1080

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Patent Application Number(s)

Patent Number(s)

09734512

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

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PCT

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Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.00

Method of Payment:
Deposit Account

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Deposit Account ☐

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Deposit Account Number:

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Authorization to charge additional fees:

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Statement and Signature

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David R. Metzger

Name of Person Signing

Signature

David R. Metzger

Date

6/26/01

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Execution Date
Month Day Year

Name (line 1) Matsumoto, Jun

04232001

Name (line 2)

Execution Date
Month Day Year

Name (line 1) Suginuma, Koji

05022001

Name (line 2)

Execution Date
Month Day Year

Name (line 1) Nishiguchi, Masayuki

05082001

Name (line 2)

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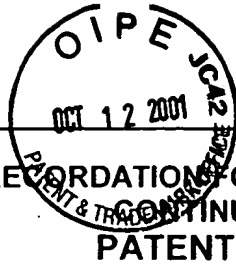
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Area Code and Telephone Number (312) 876-8000

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Address (line 3) Wacker Drive Station - Sears Tower

Address (line 4) Chicago, IL 60606-1080

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Patent Number(s)

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Deposit Account ☐

Deposit Account

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Deposit Account Number:

19-3140

Authorization to charge additional fees:

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Statement and Signature

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David R. Metzger

Name of Person Signing

Signature

Date

David R. Metzger

6/26/01